

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Patent Abstracts of Japan

PUBLICATION NUMBER : 56118273
PUBLICATION DATE : 17-09-81

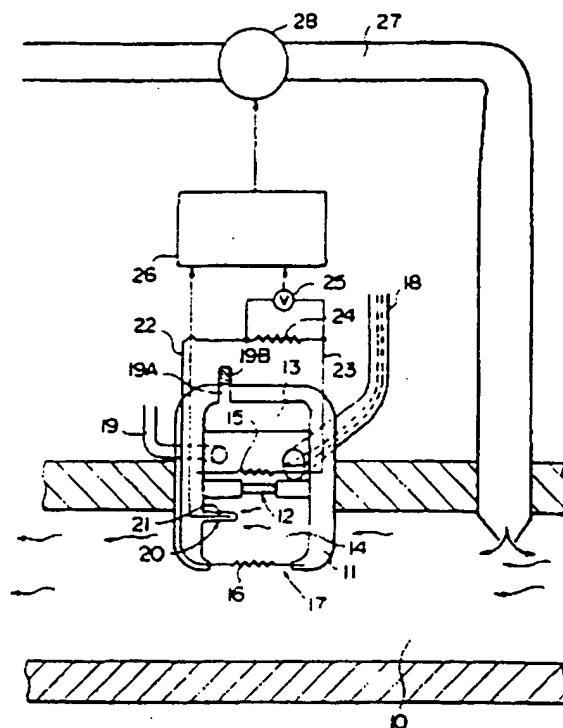
APPLICATION DATE : 20-02-80
APPLICATION NUMBER : 55020017

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : NAKAMURA MASASHI;

INT.CL. : H01M 8/04

TITLE : CONCENTRATION SENSOR FOR FUEL CELL



ABSTRACT : PURPOSE: To enable accurate measurement of the fuel concentration of a fuel cell, by introducing electrolyte of a measured fuel cell into another fuel cell of a small capacity, detecting the fuel concentration and the temperature of the electrolyte introduced, being followed by correcting the concentration detecting signal according to the temperature detecting signal.

CONSTITUTION: A body 11 is partitioned with a diaphragm 12 into an air-electrode chamber 13 and a fuel-electrode chamber 14, where an air electrode 15 and a fuel electrode 16 are located in parallel to one another. Electrolyte of a measured liquid-fuel cell which contains fuel is introduced into the fuel-electrode chamber 14 through an opened inlet 17 facing to introduction path 10. The temperature of the measured electrolyte introduced into the fuel-electrode chamber 14 is always detected by either a thermocouple or thermistor 21 which is installed within a projection 20 protruding toward the fuel-electrode chamber. A great resistance 24, the voltage across which is measured as an output signal of a sensor by a voltmeter 25, is connected to between the fuel electrode 16 and the air electrode 15 by means of lead wires 22 and 23.

COPYRIGHT: (C) JPO